CLAIMS

What is claimed is:

1.   A bone anchor for use in a prosthesis, the bone anchor having a bone

attachment portion and a platform portion, the bone attachment portion being adapted to

10   secure the bone anchor in a bone, and the platform portion having a non-flat top surface.

2.   The bone anchor of claim 1, wherein the prosthesis is a two-stage dental

prosthesis comprising the bone anchor and an abutment having a platform engagement

portion that can be flushly mated with the platform portion of the bone anchor, the bone

15   anchor further comprising an abutment acceptor adapted to engage the abutment.

3.   The bone anchor of claim 1, wherein the prosthesis is a two-stage dental

prosthesis comprising the bone anchor, an abutment, and an artificial tooth adapted to

engage the abutment and the bone anchor, the bone anchor further comprising an

20   abutment acceptor adapted to engage the abutment, and the artificial tooth having a

bottom surface portion that can be flushly mated with the platform portion of the bone

anchor.

4.   The bone anchor of claim 1, wherein the non-flat top surface of the

25   platform portion has a curvilinear shape.

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5.   The bone anchor of claim 4, wherein the non-flat top surface of the platform portion has a convex hyperbolic shape.

6.   The bone anchor of claim 4, wherein the non-flat top surface of the platform portion has a regular curvilinear shape.

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7.   The bone anchor of claim 4, wherein the non-flat top surface of the platform portion has an irregular curvilinear shape.

8.   The bone anchor of claim 4, wherein the non-flat top surface of the platform portion has a concave shape .

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9.   The bone anchor of claim 1, wherein the non-flat top surface of the platform portion has a shape comprised of at least two non-parallel flat surfaces.

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10.   The bone anchor of claim 1, further comprising an external polygonal indexing device.

11.   The bone anchor of claim 1, further comprising an internal polygonal indexing device.

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12.   The bone anchor of claim 1, further comprising an internal tapered indexing device.

13.   A dental prosthesis comprising a bone anchor, an abutment, and an artificial tooth, the bone anchor comprising a first abutment acceptor adapted to engage the abutment, and a platform portion having a non-flat top surface; the abutment having a bone anchor connection portion adapted to engage the first abutment acceptor, a platform engagement portion that can be flushly mated with the platform portion of the bone anchor, and an artificial tooth connection portion adapted to engage the artificial tooth; and the artificial tooth comprising a second abutment acceptor adapted to engage the abutment.

14.   The dental prosthesis of claim 12, wherein the non-flat top surface of the platform portion of the bone anchor has a curvilinear shape, and the platform engagement portion has a bottom surface having a shape complementary to the non-flat top surface of the platform portion of the bone anchor.

15.   The prosthesis of claim 13, wherein the non-flat top surface of the platform portion of the bone anchor has a convex hyperbolic shape and the bottom surface of the platform engagement portion of the abutment has a concave hyperbolic shape.

16.   The prosthesis of claim 13, wherein the non-flat top surface of the platform portion of the bone anchor has a regular curvilinear shape.

17.   The prosthesis of claim 13, wherein the non-flat top surface of the platform portion of the bone anchor has an irregular curvilinear shape.

18.   The prosthesis of claim 13, wherein the non-flat top surface of the platform portion of the bone anchor has a concave shape and the bottom surface of the platform engagement portion of the abutment has a convex shape.

19.   The prosthesis of claim 13, wherein the non-flat top surface of the platform portion of the bone anchor has a shape comprised of at least two non-parallel flat surfaces.

20.   A dental prosthesis comprising a bone anchor, an abutment, and an artificial tooth, the bone anchor comprising a first abutment acceptor adapted to engage the abutment, and a platform portion having a non-flat top surface; the abutment having a bone anchor connection portion adapted to engage the first abutment acceptor, and an artificial tooth connection portion adapted to engage the artificial tooth; and the artificial tooth comprising a second abutment acceptor adapted to engage the abutment, and a platform engagement portion that can be flushly mated with the platform portion of the bone anchor.

21.   The dental prosthesis of claim 20, wherein the non-flat top surface of the platform portion of the bone anchor has a curvilinear shape, and the platform engagement portion has a bottom surface having a shape complementary to the non-flat top surface of the platform portion of the bone anchor.

22. The prosthesis of claim 20, wherein the non-flat top surface of the platform portion of the bone anchor has a convex hyperbolic shape and the bottom surface of the platform engagement portion has a concave hyperbolic shape.

23. The prosthesis of claim 20, wherein the non-flat top surface of the platform portion of the bone anchor has a regular curvilinear shape.

24. The prosthesis of claim 20, wherein the non-flat top surface of the platform portion of the bone anchor has an irregular curvilinear shape.

25. The prosthesis of claim 20, wherein the non-flat top surface of the platform portion of the bone anchor has a concave shape and the bottom surface of the platform engagement portion has a convex shape.

26. The prosthesis of claim 20, wherein the non-flat top surface of the platform portion of the bone anchor has a shape comprised of at least two non-parallel flat surfaces.

27. A kit comprising at least a first bone anchor for use in a prosthesis and a second bone anchor for use in a prosthesis, the first and second bone anchors each having a bone attachment portion being adapted to secure each bone anchor in a bone, and a platform portion having a non-flat top surface, wherein the first and second bone anchor differ from each other in at least one dimensional parameter selected from the group consisting of: size and shape.

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